

Chaos Fecundity: Symbiosis

From Chaos to the Evolution

Of ferman: [Fernando Mancebo Rodriguez](#) 2000



Let's remember firstly the definition of Chaos in Structural Cosmology:

"Chaos is the interaction among autonomous elements or subsets when they stay and move in the same vital space".

(So at first, all interaction or interrelation among elements can be considered initially as a chaotic state, although later on could be necessary to analyze its chaotic degree. In this sense and in my set theory, three integration degrees of symbiosis of the set elements are given, which go from the scrappily set (where no symbiotic relation seems to exist) to the fusion set where a total integration or symbiosis exists, and the elements already form a much defined physical body.)

That is to say, for creating a chaotic state firstly we need the existence of elements with autonomy and own characteristics, and second that these elements can have interaction among them.

Of this previous explanation we also take out diverse queries that later will try of clarifying. The most important would be respect to if chaos is a human appreciation only, or if chaos really has physical consistency.

Nevertheless and for not staying in the uncertainty, we will say that chaos has a physical consistency and also a very subjective and wide human appreciation due to our inability for understanding in all its extension all those surround us.

But let us catch the cosmic beginning.

To proceed to the cosmic creativity, the physics of the Cosmos becomes chaotic states for later on goes becoming into all type of creations and manifestations in exponential type, say, from simpler elements until set of much more complex and more creative elements and physical bodies.

This way, the cosmic energy becomes matter, which gives place to multitude of particles, atoms, etc., all them with different properties, characteristic, quantity and type of forces, etc. Then the first thing that contributes the cosmic creativity is an enormous quantity of particles, atoms, materials, etc., all them different and forming an immense chaotic group.

But further, the cosmic creativity also increases the chaotic degree when giving to all these elements a great mobility so that the chaos and the chaotic interaction arrive to high value. And in fact it is here where the Fecundity of the Chaos begins to work and give its fruit.

We have seen that in the initial Chaos what existed was infinite elements with multiple and differentiated properties and characteristic and that this elements had to move and to cohabit in the same common medium.

Therefore this circumstance produces infinite crashes, relationships and interactions among them and starting from here a definitive event takes place for the cosmic creativity, which is the Symbiosis and its natural consequence, the Evolution.

Then in the Great Initial Chaos (and in any chaotic state) the constant interrelation among elements, each one with its own characteristics, makes that when two or more elements have complementary properties (*) this elements unite by means of this complementation of properties and end up forming set of elements with common characteristics, say, the symbiosis of physical elements.

(*) A complementary property is the characteristic of an element that can be appropriated and necessary for the improvement of another element, with which, the union of both elements is able to form a more balanced and more positive state for them.

For example when an atom needs an electron and another has a surplus one. In this case the second atom gives its surplus electron to the first atom, and this way both atoms reach its balance, lasting united for their energy balance and magnetic forces.

Now well, to this property we call Symbiosis, and it is the union of two or more elements for a better use of their capacities.

Of course that this symbiosis take place in any cosmic level; either at level of particles, atoms, molecules, cells, materials, individuals, groups, civilizations, etc.

Therefore, and in honor of its importance in the cosmic creativity, we say that:

Symbiosis

The symbiosis is the union of elements and set to give or to share abilities and characters and this way to be supplemented mutually.

And so that:

"The Symbiosis is the essence of the cosmic creativity, and at higher level, of the evolution of species."

And certainly, the Evolution is simply a continuous symbiotic state in which the alive beings, due to their capacity of change and transformation, can stay interacting with the medium that surrounds them and go adapting themselves to this medium for better use of the resources.

This way, if any animal moves to a climatic different medium with different feeding types, temperature, etc., this animal will learn quickly to use the new elements to his reach and this new symbiosis type will make that the animal goes getting ready day after day for the new situation, evolving his physical and biological capacities for this current situation and for the new symbiotic characteristics with the vital medium in that he is now.

Returning at the beginning and with reference to the Chaos Fecundity Chaos, let us say that Chaos is in fact that facilitates the interaction among elements and individuals in the Cosmos and nature, and to who we owe the creation of all symbiosis; from the birth of groups, materials, cells, vegetal, and finishing with the evolution of species proposed by our friend Darwin.

Symbiosis y Adaptation

We have seen as the symbiosis is the method of union of physical, material and vital elements of all type with object of building bigger groups (objects, materials, alive beings, etc.) and more perfect.

When what unite are physical elements, which contribute their properties to the final set, then the form of union is the simple or pure symbiosis.

But if what unite are vital or biological elements, which can change with the time their peculiarities to improve their final symbiotic state, then we should call it **Adaptation Symbiosis**, because some of their components can go changing their characteristics to get a bigger symbiotic degree of union among the components.

In this case, when we refer to the evolution of the species, what is happening is that the animal species are adapting or getting ready better to produce more positive and more fertile symbiosis among the animals and the medium.

Symbiosis to any level

Certainly the symbiosis is the essence of the creativity and it takes place at any cosmic level. When two atoms reaction what they makes is to unite by symbiosis and complementation of their characteristics.

Equally two subatomic particles unite for the action of their magnetic fields last balanced with this union.

The same occur in molecules and macromolecules where they can react with other forming symbiosis every time more complex and more satisfactory for the molecular group.

Already to level of duplication of the DNA the mother chain can choose the molecules that must compose the double chain and where we can say that the symbiosis is total and specific.

In the same way, the sea, the atmosphere, the rock, the rivers, the trees, etc. all they are symbiosis of elements and groups.

Now then, at alive beings' level that move and interrelate among them, we see that it is also essential the symbiosis among them because it is what gives value and consistency to their interrelations.

To unite to hunt is a symbiosis without which the humanity would not have been developed.

To unite to work in team is also essential. And it is a symbiosis.

To unite to procreate is a deep biological symbiosis.

To unite to enjoy equally is a symbiosis.

Etc. etc.

Therefore we remember the previous conclusion: The symbiosis is the essence of the cosmic creativity and of the intelligence and cerebral and mental operability.

Physical Chaos

With the previously exposed we can already conclude that a real physical chaos exists. This way if many physical elements are situated and move in the same medium or vital space, these can act disorderly and without forming any type of union, combination of symbiotic reference, or on the contrary sense, part of these elements can contribute their properties to meet among them in symbiosis unions and this way forming very defined physical bodies.

In the case of our planet at the beginning alone amorphous materials existed, but with the pass of time these begin to interact creating specific materials, rocks, seas, macromolecules, cells, vegetables, etc., thanks to the symbiosis method of union of the terrestrial elements.

Then we can say that at the beginning in our earth what existed was the total chaos, and now this chaos have gone changing to some symbiotic set of element, an also many physical and vital bodies.

Conclusion

This way, we can conclude that the Physics of the Cosmos beginning with a great Chaos of particles, matter, atomic elements, etc.

But the characteristics of Chaos of moving and to make interact all these elements among them propitiate the Symbiosis of elements, set of elements, physical and vital bodies, etc. until getting a great integration of elements at all levels and this way the whole creativity of our planet.

But to be grateful, we should remember the Chaos is very good for us.

So we have to recognize the Fecundity of Chaos.

Cosmic Intelligence

Chaos plus Symbiosis = Cosmos' intelligent development.

Let us remember the definition of Intelligence in Metaphysics:

The intelligence is the capacity of taking (or to create) cognate or complementary elements and to chain or unite them to form compounds or bigger groups with the succession peculiarity, that is to say, the next points will be similar although the distant ones can be different.

Therefore:

--The Cosmic Chaos is the necessary device to give motion and interrelation among elements.

--And the Symbiosis is the form of to unite and to chain complementary elements to form groups every time bigger and more evolved and developed.

Then we deduce that the applicable intelligence to the humans is also applicable to the Cosmos development, that is to say, interaction and union of complementary elements to form all type of creativity in exponential way.

Creativity Development

Chaos promotes Symbiosis ----> and --> Symbiosis promotes unions, adaptation and evolution

Chaos formulas

Subsequently I will try to go developing the formulas of chaos.

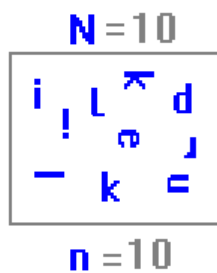
For it, we will treat of exposing firstly the formula of the Static and Dynamic Chaos.

Static Chaos *ferman*

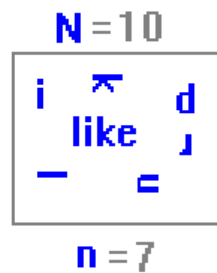
Order $\frac{1}{n}$ and Chaos $\frac{n-1}{N}$

N Total number of elements

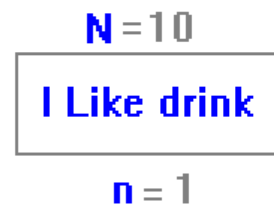
n Number of element after the integration.



Order	Chaos
$\frac{1}{10} = 0,1$	$\frac{9}{10} = 0,9$



Order	Chaos
$\frac{1}{7} = 0,143$	$\frac{6}{10} = 0,6$



Order	Chaos
$\frac{1}{1} = 1$	$\frac{0}{10} = 0$

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Dynamic Chaos **Formula** *ferman* **Fórmula del Caos Dinámico** Fe-2009

$$\mathcal{F} = \frac{F}{V \cdot T}$$

\mathcal{F} = Chaotic fluctuation
Number of fluctuation/cubic meters/second
Flu = 1 fluctuation/cubic meter/second

F = Quantity of fluctuations

V = Volume / or surface

T = Time

Chaotic fluctuation is the observable change of motion or direction of any element due to own initiative or exterior interaction